

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Previously Presented): A rear-projection screen comprising at least one scattering layer comprising scattering particles and comprising at least one backing layer, wherein
the scattering layer has a halved-intensity angle greater than or equal to 15° ,
~~and~~ the backing layer has a halved-intensity angle smaller than or equal to 6.5° , ~~where~~
the gloss R_{60° of the backing layer is smaller than or equal to 70, and
a median diameter of the scattering particles is in the a range from 0.1 to 40 μm .

Claim 2 (Cancelled):

Claim 3 (Previously Presented): The rear-projection screen according to Claim 2, wherein the scattering particles encompass plastic.

Claim 4 (Currently Amended): The rear-projection screen according to Claim 1, wherein the average surface roughness R_z of ~~the~~ a surface of the backing layer is in ~~the~~ a range from 3 to 40 μm .

Claim 5 (Previously Presented): The rear-projection screen according to Claim 1, wherein the gloss R_{85° of the scattering layer is smaller than or equal to 60.

Claim 6 (Previously Presented): The rear-projection screen according to Claim 1, wherein the backing layer has a multilayer structure.

Claim 7 (Previously Presented): The rear-projection screen according to Claim 1, wherein the gloss of the backing layer is achieved via application of a film.

Claim 8 (Previously Presented): The rear-projection screen according to Claim 1, wherein the halved-intensity angle of the backing layer is smaller than or equal to 3° .

Claim 9 (Currently Amended): The rear-projection screen according to Claim 1, wherein ~~the~~ a thickness of the backing layer is in ~~the~~ a range from 1 to 10 mm.

Claim 10 (Currently Amended): The rear-projection screen according to Claim 1, wherein ~~the~~ a thickness of the scattering layer is in ~~the~~ a range from 0.1 to 1 mm.

Claim 11 (Currently Amended): The rear-projection screen according to Claim 1, wherein the quotient calculated by dividing ~~the~~ a thickness of the backing layer by ~~the~~ a thickness of the scattering layer is in ~~the~~ a range from 1:1 to 50:1.

Claim 12 (Currently Amended): The rear-projection screen according to Claim 1, wherein the average surface roughness R_z of the scattering layer is in ~~the~~ a range from 4 to 50 μm .

Claim 13 (Previously Presented): The rear-projection screen according to Claim 1, wherein the scattering layer encompasses at least two particles (A) and (B), which differ in size.

Claim 14 (Currently Amended): The rear-projection screen according to Claim 13, wherein ~~the~~ a median diameter of the particles (A) is in ~~the~~ a range from 0.1 to 40 μm and their refractive index differs from that of a plastic matrix by from 0.02 to 0.2, while ~~the~~ a median diameter of the particles (B) is in ~~the~~ a range from 10 to 150 μm and their refractive index differs from that of a polymethyl methacrylate matrix by from 0 to 0.2.

Claim 15 (Currently Amended): The rear-projection screen according to Claim 1, wherein the scattering layer and/or the backing layer has been colored ~~coloured~~.

Claim 16 (Previously Presented): The rear-projection screen according to Claim 1, wherein the transmittance of the rear-projection screen is at least 25%.

Claim 17 (Previously Presented): The rear-projection screen according to Claim 1, wherein the scattering layer and the backing layer are composed of coextruded polymethyl methacrylate with a path difference of at most 25 nm due to optical birefringence.

Claim 18 (Previously Presented): The rear-projection screen according to Claim 1, wherein the D65/10° yellowness index of the rear-projection screen to DIN 6167 is smaller than or equal to 12.

Claim 19 (Previously Presented): The rear-projection screen according to Claim 18, wherein the weathering resistance of the rear-projection screen to DIN 53 387 is at least 5000 hours.

Claim 20 (Currently Amended): A process for producing ~~[[a]]~~ the rear-projection screen according to Claim 1, wherein a ~~moulding~~ molding composition which comprises scattering particles is extruded, thereby producing to give a layer, and ~~this~~ the layer is then bonded to a backing layer.

Claim 21 (Currently Amended): A process for producing ~~[[a]]~~ the rear-projection screen according to Claim 1, wherein a ~~moulding~~ molding composition comprising scattering particles is coextruded with a ~~moulding~~ molding composition which comprises no, or only a very small amount of, scattering particles.

Claim 22 (Currently Amended): The process according to Claim 20, wherein ~~an embossing roll is utilized in producing~~ the backing layer is embossed by an embossing roll.

Claim 23 (Currently Amended): A process for producing ~~[[a]]~~ the rear-projection screen according to Claim 17, wherein the polymethyl methacrylate is extruded, thereby producing to give a sheet or film, and the extruded sheet or film is then heated to 110-190°C for from 5 minutes to 24 hours.

Claim 24 (Currently Amended): A ~~method~~ process for projecting in 3D comprising ~~utilizing a projecting an image in 3D by the~~ rear-projection screen according to Claim 17 ~~to project an image in 3D~~.

Claim 25 (New): The rear-projection screen according to Claim 1, wherein the backing layer does not comprise the scattering particles and is transparent.

Claim 26 (New): The rear-projection screen according to Claim 1, wherein the backing layer is embossed by an embossing roll.

Claim 27 (New): The rear-projection screen according to Claim 1, wherein the yellowing index of the backing layer is less than 2, said yellowing index is measured without the scattering layer.

Claim 28 (New): The rear-projection screen according to Claim 1, wherein the halved-intensity angle of the backing layer is determined by separating the scattering layer from the rear-projection screen.